

CISC124 – Today's Topics		
<ul style="list-style-type: none"> <li>▪ Junit testing example</li> <li>▪ Class hierarchies</li> </ul>		
Winter 2019	F. de la Parra	1

•1

JUnit Framework		
<ul style="list-style-type: none"> <li>• JUNIT STUBS:               <ul style="list-style-type: none"> <li>– <b>FLOW CONTROL</b> <ul style="list-style-type: none"> <li>• <b>@BeforeAll</b> (Test method before a Class)</li> <li>• <b>@AfterAll</b> (Test method after a Class)</li> <li>• <b>@BeforeEach</b> (Test method before each Method)</li> <li>• <b>@AfterEach</b> (Test method after each Method)</li> </ul> </li> <li>– <b>ASSERTIONS</b> <ul style="list-style-type: none"> <li>• <b>assertEquals(), assertEqualsArray(), assertNotEquals()</b> (for values or arrays of values)</li> <li>• <b>assertSame(), assertNotSame()</b> (for objects)</li> <li>• <b>assertTrue(), assertFalse()</b> (for boolean expressions)</li> <li>• <b>assertNull()</b> (for references)</li> </ul> </li> </ul> </li> </ul>		
Winter 2018	CISC124 – Section 2	2

•2

JUnit Testing: ClassList Example		
<ul style="list-style-type: none"> <li>• CLASS UNDER TEST: ClassList               <ul style="list-style-type: none"> <li>– ONE METHOD UNDER TEST: printJohn</li> </ul> </li> <li>• TEST CLASS: StudentTest               <ul style="list-style-type: none"> <li>– IMPLEMENTS FLOW CONTROL</li> <li>– IMPLEMENTS A TEST CASE FOR THE ONE METHODS UNDER TEST</li> </ul> </li> </ul>		
Winter 2018	CISC124 – Section 2	3

•3

JUnit Testing: Student Example		
<ul style="list-style-type: none"> <li>• CLASS UNDER TEST: Student               <ul style="list-style-type: none"> <li>– FOUR METHODS UNDER TEST: description, updatePartialMarks, computeFinalMark, isCourseCompleted</li> </ul> </li> <li>• TEST CLASS: StudentTest               <ul style="list-style-type: none"> <li>– IMPLEMENTS FLOW CONTROL</li> <li>– IMPLEMENTS VARIOUS TEST CASES FOR THE FOUR METHODS UNDER TEST</li> </ul> </li> </ul>		
Winter 2018	CISC124 – Section 2	4

•4